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| **Fitting a Multiple Linear Regression with Two Numerical Variables**my\_model <- lm(<RESPONSE> **~** <EXPLANATORY VARIABLE 1> **+** <EXPLANATORY VARIABLE 2>**,**  data = <NAME OF DATASET>)***Note:*** The **~** is necessary! It has to be there! |
| **Fitting a Different Slopes (Interaction Model)**my\_model <- lm(<RESPONSE> **~** <CATEGORICAL EXPLANATORY VARIABLE> **\***  <NUMERICAL EXPLANATORY VARIABLE>**,**  data = <NAME OF DATASET>)***Note:*** To get different slopes, you must have a **\*** between your categorical variable and your numerical variable |
| **Fitting a Parallel Slopes (Additive Model)**my\_model <- lm(<RESPONSE VARIABLE> **~** <CATEGORICAL EXPLANATORY VARIABLE> **+**  <NUMERICAL EXPLANATORY VARIABLE>**,**  data = <NAME OF DATASET>)***Note:*** To get parallel slopes, you must have a **+** between your categorical variable and your numerical variable |
| **Obtaining Coefficient Table**get\_regression\_table(my\_model,  conf.level = 0.95)***Note:*** You need to have fit the linear regression **before** this step!***Note:*** If you want a 90% confidence interval, you change conf.level to 0.90 |
| **Obtaining Model Summaries**get\_regression\_summaries(my\_model)***Note:*** You need to have fit the linear regression **before** this step! |

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| **Fitting a Multiple Linear Regression with Every Explanatory Variable**my\_model <- lm(<RESPONSE VARIABLE> **~** **.,** data = <NAME OF DATASET>)***Note:*** The **.**stands in for **every** variable in the dataset (which is not the response variable), so this model will have as many explanatory variables as there are variables in the dataset!  |
| **Fitting a Multiple Linear Regression with Every Explanatory Variable – Except One (or Two) 😊** my\_model <- lm(<RESPONSE VARIABLE> **~** **. -**<EXPLANATORY VARIABLE OF NO INTEREST>**,**data = <NAME OF DATASET>)***Note:*** The **.**stands in for **every** variable in the dataset (which is not the response variable), and the **–** says “except this variable”. So, if you want to remove two variables you would need to have a **–** sign in front of **both** variables.  |